

# The Challenges and Opportunities for Cataloging in Today's Changing Metadata Environment.

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# CRISIS

危機

Opportunity in Danger

# Our Challenges --

- Large size of collection with many different types of resources.
- Systems in a constant state of evolution.
- So many metadata schema.
- Authority Control or Access Control
- Complexity and non-interoperability.

# AACR2, MARC21, LCSH

- You might already have been thinking about this....
  - In the new Internet environment, are these tools enough and suitable: MARC, AACR, LCSH? Do all resources need the same kind of treatment?
  - How about increasing metadata schema?
  - Does the MARC format have a place in this new information age?
  - Are they dynamic enough to describe and document the current information explosion of formats, containers, data, hypertext, and media as well as future technological information packages?
  - Can LCSH be interoperable across disciplines and in various knowledge, discovery and access environments including OPAC?

# Must MARC Die?

- Field and record size limitations
- Virtually unused outside of libraries
- Restricted range of scripts supported
- Limited ability to convey hierarchical & complex relationships, attributes
- No ability to embed related objects (e.g., book cover GIF)
- Cannot be directly processed by widely-used web applications

# No! New Life through XML-

## foundation of metadata standards

- Interoperability
- Data longevity
- Data persistence
- Future proofing
- Repurposing data
- Extensibility
- Universal character set
- Internationalization

# XML Example

```
- <book>
  <title>The Mother Tongue: English and How it Got that Way</title>
- <author>
  <aualast>Bryson,</aualast>
  <aufirst>Bill</aufirst>
</author>
- <date>
  <day>19</day>
  <month>December</month>
</date>
  <year>2004</year>
  <comment>Amusing, somewhat interesting, but not great. It took me forever to finish.</comment>
  <code>nonfiction</code>
</book>
- <book>
  <title>Marie Antoinette</title>
- <author>
  <aualast>Komroff,</aualast>
  <aufirst>Manual and Odette</aufirst>
</author>
- <date>
  <day>4</day>
  <month>December</month>
</date>
  <year>2004</year>
  <comment>So so. A young adult biography of the famous queen.</comment>
  <code>nonfiction</code>
  <code>youngadult</code>
</book>
- <book>
  <title>The Belton Estate</title>
- <author>
  <aualast>Trollope,</aualast>
  <aufirst>Anthony</aufirst>
</author>
- <date>
  <day>25</day>
  <month>November</month>
```

# When the opportunities come are you willing to give it a try?

- Metadata Schema
- FRBR (Reference Model)
- FAST (Faceted Application of Subject Terminology)
- RDA (AACR3)



# Some Types of Metadata

- Descriptive metadata
- Administrative metadata
  - Technical metadata
  - Preservation metadata
  - Rights metadata
- Structural metadata

# Metadata Standards

- Text Encoding Initiative (TEI)
- Visual Resources Association (VRA)
- Global Information Locator Service (GILS)
- Online Information Exchange (ONIX)

# Metadata Standards cont.

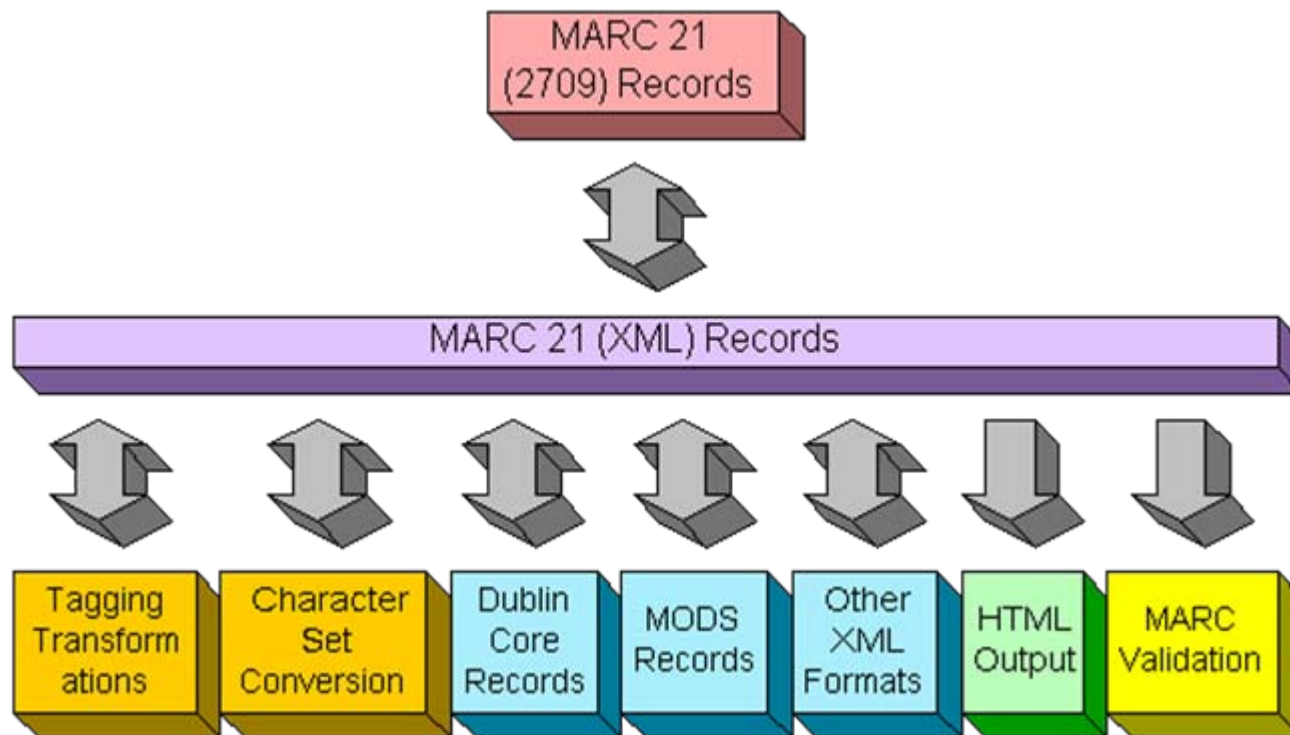
- Content Standards for Digital Geospatial Metadata (CSDGM) aka FGDC
- Data Documentation Initiative (DDI)
- Metadata for Images in XML (MIX)
- Metadata Object Description Schema (MODS)
- Dublin Core (DC)
- MARC

Type	Attributes	Schema
Bibliographic metadata	Bibliographic description and identification of the resources : titles, authors, indexing terms, classification codes, abstracts, surrogates, etc.	MARC, METS, MODS, EAD, TEI, DC, ONIX
Administrative metadata [preservation & technical]	Information about the resource : information about acquisition process and costs, rights, date of creation, origin, authenticity, etc.	METS, TEI
Structural metadata	data providing for a page-turning function; data allowing linkage to encoded text embedded image, audio or video files	METS

# MARCXML

- LC has developed a MARC XML schema, stylesheets, and tools
- The schema allows representation of a complete MARC record in XML
  - Conversion without data loss.
- Will support new transformations to new uses of MARC data
  - MARC to MARCXML to Dublin Core and MODS
- <http://xml.coverpages.org/xmlmarc.html>

# MARCXML Architecture



# MARCXML Sample

- <marc:datafield tag="245" ind1="1" ind2="0">  
<marc:subfield code="a">New railroad map of the state of  
Maryland, Delaware, and the District of Columbia. Compiled  
and drawn by Frank Arnold Gray.</marc:subfield>  
</marc:datafield>
- <marc:datafield tag="260" ind1="" ind2="">  
<marc:subfield code="a">Philadelphia,</marc:subfield>  
<marc:subfield code="c">1876.</marc:subfield>  
</marc:datafield>
- <marc:datafield tag="300" ind1="" ind2="">  
<marc:subfield code="a">col. map</marc:subfield>  
<marc:subfield code="c">39 x 62 cm.</marc:subfield>  
</marc:datafield>

# Dublin Core Sample

<metadata>

- <oai\_dc:dc xmlns:oai\_dc="http://www.openarchives.org/OAI/2.0/oai\_dc/"  
xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-  
instance" xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai\_dc/  
http://www.openarchives.org/OAI/2.0/oai\_dc.xsd">

<dc:title>**New railroad map of the state of Maryland, Delaware, and the District of Columbia.  
Compiled and drawn by Frank Arnold Gray.**</dc:title>

<dc:creator>**Gray, Frank Arnold.**</dc:creator>

<dc:subject>**Railroads--Middle Atlantic States--Maps.**</dc:subject>

<dc:description>**Shows drainage, canals, stations, cities and towns, counties, canals, roads  
completed, narrow gauge and proposed railroads with names of lines. Includes list of  
railroads.**</dc:description>

<dc:description>**Scale 1:633,600.**</dc:description>

<dc:description>**LC Railroad maps, 230**</dc:description>

<dc:description>**Description derived from published bibliography.**</dc:description>

<dc:publisher>**Philadelphia**</dc:publisher>

<dc:date>**1876**</dc:date>

<dc:type>**image**</dc:type>

<dc:type>**map**</dc:type>

<dc:type>**cartographic**</dc:type>



# Metadata Object Description Schema (MODS)

- <metadata>
- `<mods xmlns="http://www.loc.gov/mods/v3" xmlns:xlink="http://www.w3.org/1999/xlink" xsi:schemaLocation="http://www.loc.gov/mods/v3 http://www.loc.gov/standards/mods/v3/mods-3-0.xsd">`
- `<titleInfo>`
- `<title>New railroad map of the state of Maryland, Delaware, and the District of Columbia. Compiled and drawn by Frank Arnold Gray</title>`
- `</titleInfo>`
- `<name type="personal">`
- `<namePart>Gray, Frank Arnold.</namePart>`
- `<role>`
- `<roleTerm authority="marcrelator" type="text">creator</roleTerm>`
- `</role>`
- `</name>`
- `<typeOfResource>cartographic</typeOfResource>`
- `<genre authority="marc">map</genre>`
- `<originInfo>`

# Output Display

98688491 - Microsoft Internet Explorer


File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print View Source Mail News Messenger

Address [http://memory.loc.gov/cgi-bin/query/r?ammem/gmd:@field\(NUMBER+@band\(g3791p+rr002300\)\)](http://memory.loc.gov/cgi-bin/query/r?ammem/gmd:@field(NUMBER+@band(g3791p+rr002300))) Go Links

Y! Search Web Welcome Tour Google Go Bookmarks Settings

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**New railroad map of the state of Maryland, Delaware, and the District of Columbia. Compiled and drawn by Frank Arnold Gray.**

[Gray, Frank Arnold.](#)

**CREATED/PUBLISHED**  
Philadelphia, 1876.

**SUMMARY**  
Shows drainage, canals, stations, cities and towns, counties, canals, roads completed, narrow gauge and proposed railroads with names of lines. Includes list of railroads.

**NOTES**  
Scale 1:633,600.  
Reference: LC Railroad maps, 230  
Description derived from published bibliography.

start Chall\_Opptu\_sentRic... Sample OAI-PMH req... Cook Library - New C... 98688491 - Microsoft... EN 7:12 PM

# Example of Crosswalk

MARC	DC	MODS
100 700 \$d \$c	Creator Contributor	<name><namePart> <namePart> <i>with</i> type="date" <namePart>with type="term of address"
245 \$b \$n \$p	Title	<titleInfo> <subTitle> <partNumber> <PartName>

# Projects using MODS

- New Jersey Digital Highway
- AV Prototype Project (Library of Congress)
  - Digital preservation for audio and video
  - Uses METS and MODS with focus on metadata
- University of California press
  - Using METS with MODS for freely available ebooks
- California Digital Library
  - Digitization of archival materials
- Other METS projects as descMD section
- MusicAustralia
  - MODS as exchange format between National Library of Australia and ScreenSoundAustralia

# Metadata Framework/Container

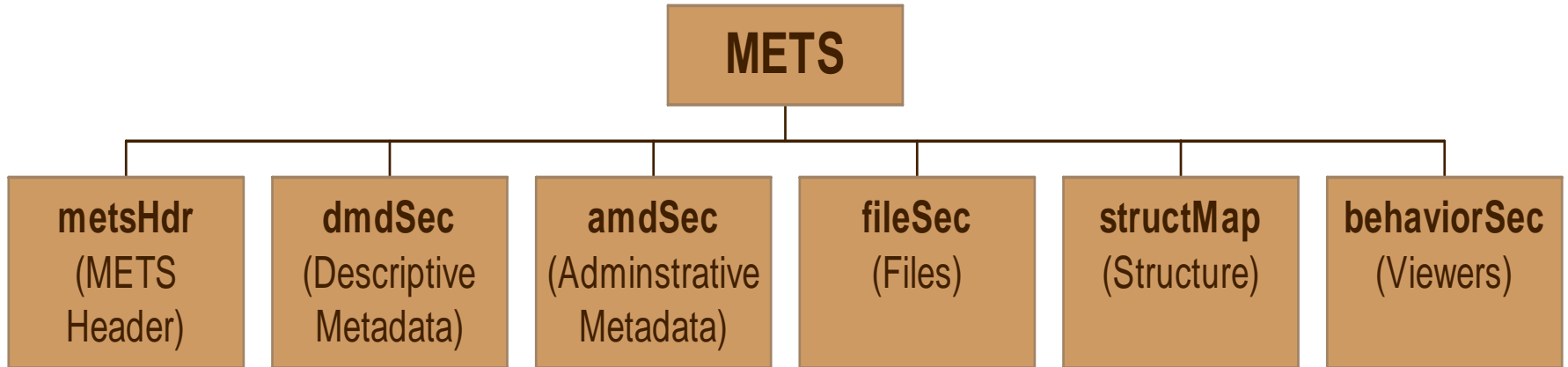
- Metadata Encoding and Transmission Standard (METS)

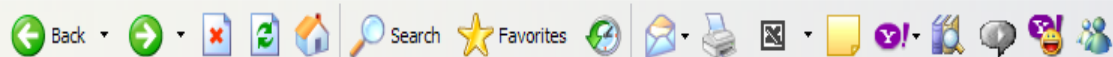
Developed by the Digital Library Federation (DLF) and Library of Congress

- A standard that provides a method to encapsulate all the information about an object – whether digital or not

(Tennant, May 15, 2004)

# METS Schema



Address <http://memory.loc.gov/cocoon/ihas/loc.natlib.ihas.100000006/default.html> Go Links

Google Go 102 blocked Check AutoLink AutoFill Send to Settings

Y! Search Web Messenger Bookmarks My Yahoo! Yahoo! Games Mail Shopping News Travel

The Library of Congress presents ...

Performing Arts Reading Room

# Music, Theater & Dance

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[home](#) » [sheet music brief display](#)

## Star spangled banner / John Stafford Smith [sheet music]



**Title**  
Star spangled banner [sheet music]

**Composer**  
[Smith, John Stafford]

**Lyricist**  
[Key, Francis Scott]

**Place of Publication/Creation**  
Philadelphia, PA

**Publisher**  
A. Bacon and Co.

**Date issued**  
[ca. 1815]

**Physical Description**  
2 p., 12 1/4 x 9 3/4 in.

### Sheet Music Views:

- » [Brief Display](#)
- » [Page Turner](#)
- » [Contact Sheet](#)
- » [Full Description](#)

Display XML: [MODS Bibliographic Data](#) | [METS Object Description](#)[home](#) » [sheet music brief display](#)
 The Library of Congress  
February 1, 2007

 Performing Arts Reading Room  
[Ask a Librarian](#)


# MODS and METS schema-1

```
<?xml version="1.0" encoding="UTF-8" ?>
- <mets:mets OBJID="loc.natlib.ihas.1000000006"
  xsi:schemaLocation="http://www.loc.gov/METS/
http://www.loc.gov/standards/mets/mets.xsd
http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-0.xsd"
  PROFILE="lc:sheetMusic"
  xmlns:mets="http://www.loc.gov/METS/"
  xmlns:lc="http://www.loc.gov/mets/profiles"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xlink="http://www.w3.org/1999/xlink"
  xmlns:rights="http://www.loc.gov/rights/"
  xmlns:mods="http://www.loc.gov/mods/v3"
  xmlns:sm="http://www.loc.gov/mets/profiles/sheetMusic">
- <mets:dmdSec ID="DMD">
- <mets:mdWrap ID="MODS1" MDTYPE="MODS">
- <mets:xmlData>
- <mods:mods version="3.2" ID="MODS"
  xsi:schemaLocation="http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-2.xsd">
```



# MODS & METS Schema-2

```
- <mods:titleInfo>
  <mods:title>Star spangled banner</mods:title>
</mods:titleInfo>
- <mods:name>
  <mods:namePart>[Smith, John Stafford]</mods:namePart>
- <mods:role>
  <mods:roleTerm type="text"
    authority="marcrelator">Composer</mods:roleTerm>
</mods:role>
</mods:name>
- <mods:name>
  <mods:namePart>[Key, Francis Scott]</mods:namePart>
- <mods:role>
  <mods:roleTerm type="text"
    authority="marcrelator">Lyricist</mods:roleTerm>
</mods:role>
</mods:name>
```

# MODS & METS Schema-3

```
<mods:typeOfResource>notated music</mods:typeOfResource>
- <mods:originInfo>
- <mods:place>
  <mods:placeTerm type="text">Philadelphia, PA</mods:placeTerm>
</mods:place>
  <mods:publisher>A. Bacon and Co.</mods:publisher>
  <mods:dateIssued>[ca. 1815]</mods:dateIssued>
  <mods:issuance>monographic</mods:issuance>
</mods:originInfo>
- <mods:physicalDescription>
  <mods:form authority="ihas">sheet music</mods:form>
  <mods:reformattingQuality>access</mods:reformattingQuality>
  <mods:extent>2 p., 12 1/4 x 9 3/4 in.</mods:extent>
  <mods:digitalOrigin>reformatted digital</mods:digitalOrigin>
</mods:physicalDescription>
```

# MODS & METS Schema-4

```
<mods:targetAudience
  authority="marctarget">adult</mods:targetAudience>
- <mods:subject authority="lcsch">
  <mods:topic>National songs--United States</mods:topic>
  </mods:subject>
- <mods:subject authority="lcsch">
  <mods:topic>Patriotic music--United States</mods:topic>
  </mods:subject>
  <mods:classification>M1630.3.S7M2Case</mods:classification>
  <mods:identifier type="local"
    displayLabel="IHASDigitalID">100000006</mods:identifier>
  <mods:identifier type="local"
    displayLabel="IHASMODSID">714</mods:identifier>
- <mods:location>
  <mods:physicalLocation>Music Division</mods:physicalLocation>
  <mods:physicalLocation
    authority="marcorg">DLC</mods:physicalLocation>
  </mods:location>
```

# MODS & METS Schema-5

```
<mods:recordInfo>
  <mods:recordContentSource>IHAS
</mods:recordContentSource>
  <mods:recordChangeDate encoding="marc">05053116
</mods:recordChangeDate>
  <mods:recordIdentifier
    source="IHAS">loc.natlib.ahas.100000006
  </mods:recordIdentifier>
</mods:recordInfo>
</mods:mods>
</mets:xmlData>
</mets:mdWrap>
</mets:dmdSec>
```

# MODS & METS Schema-6

```
- <mets:fileSec>
- <mets:fileGrp USE="MASTER">
- <mets:file MIMETYPE="image/tiff" GROUPID="G1"
  ID="FN10024">
  <mets:FLocat LOCTYPE="URL"
    xlink:href="http://lcweb2.loc.gov/natlib/ihas/warehous
    e/ssbanner/100000006/0001.tif" />
  </mets:file>
- <mets:file MIMETYPE="image/tiff" GROUPID="G2"
  ID="FN10029">
  <mets:FLocat LOCTYPE="URL"
    xlink:href="http://lcweb2.loc.gov/natlib/ihas/warehous
    e/ssbanner/100000006/0002.tif" />
  </mets:file>
</mets:fileGrp>
```

# MODS & METS Schema-7

```
- <mets:fileGrp USE="SERVICE">
- <mets:file MIMETYPE="image/jpeg" GROUPID="G1" ID="FN10057">
  <mets:FLocat LOCTYPE="URL"
    xlink:href="http://lcweb2.loc.gov/natlib/ihas/service/ssbanner/10000000
    6/0001v.jpg" />
  </mets:file>
- <mets:file MIMETYPE="image/jpeg" GROUPID="G2" ID="FN1007A">
  <mets:FLocat LOCTYPE="URL"
    xlink:href="http://lcweb2.loc.gov/natlib/ihas/service/ssbanner/10000000
    6/0002v.jpg" />
  </mets:file>
</mets:fileGrp>
</mets:fileSec>
- <mets:structMap>
- <mets:div TYPE="sm:sheetMusicObject" DMDID="MODS1">
- <mets:div TYPE="sm:sheetMusicScore">
- <mets:div TYPE="sm:page">
  <mets:fptr FILEID="FN10024" />
  <mets:fptr FILEID="FN10057" />
</mets:div>
```

# MODS & METS Schema-8

```
- <mets:div TYPE="sm:page">  
  <mets:fptr FILEID="FN10029" />  
  <mets:fptr FILEID="FN1007A" />  
</mets:div>  
</mets:div>  
</mets:div>  
</mets:structMap>  
</mets:mets>
```

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Reload Print Copy Paste Y! Messenger

Address <C:\Documents and Settings\Sandy Chen\Desktop\Wedding Musis Collection.html>

Google Go Bookmarks Popups okay Check AutoLink AutoFill Send to

Y! Search Web Messenger Bookmarks My Yahoo! Yahoo! Games Mail Shopping New

To help protect your security, Internet Explorer has restricted this file from showing active content that could access your computer. Click here for options...

## Title Information

Title Stream of Praise [sheet music]

## Name:Corporate

Name Part Stream of Praise Music Ministry (Musical group)

Role

Role Term:Code prf

## Type of Resource

sheet music

## Origin Information

Place

Place Term:Code (MARC Country Code) cau

Place

Place Term:Text El Monte , CA

Publisher Stream of Praise Music, Inc

Date Issued p1996

Date Issued (encoding="marc") 1996

Issuance monographic

## Language

Language Term:Code (ISO 639-2B) chi

Done

start Macromedia Dream... Internet Explorer Microsoft PowerPoi... Document1 - Micro... Document2 - Micro... EN



Go Links »

 Settings ▼

&gt;&gt;

**X**



有一位神

三、(1) 在 100 个产品中, 有 10 个不合格品, 90 个合格品。  
(2) 在 100 个产品中, 有 10 个不合格品, 90 个合格品。  
(3) 在 100 个产品中, 有 10 个不合格品, 90 个合格品。

[illegible]

C. 1855年—2000年

可被进一步吸收。因此，对胃中呈强酸性是  
否可被进一步吸收，应以胃中呈强酸性为  
前提，将胃中呈强酸性时，胃中呈强酸性，

### Sheet Music Views:

Brief Display

» Page Turner

» Page Turner

» Page Turner

» Page Turner

» Page Turner

» Page Turner

» Page Turner

» Page Turner

» Page Turner

» Page Turner



[home](#) » [sheet music page turner](#)

Blake Wedding Collection / Sandy Chen-Blake [sheet music]

美飛揚

在這美麗的時刻  
我們相聚在一起  
神的愛擁抱著我們  
神的靈充滿這地  
當稱謝進入祂的門  
當讚美進入祂的院  
擊鼓跳舞揚聲歡呼  
凡有氣息都要讚美祂

讓讚美從四處響起  
讓音符在空中飛舞  
讓我們的心向祂敬開  
讓讚美從四處響起  
讓音符在空中飛舞

有一位神

有一位神 有權能創造宇宙萬物  
也有溫柔雙手安慰受傷靈魂  
有一位神 有權柄審判一切罪惡  
也有慈悲體貼人的軟弱

有一位神 我們的神  
唯一的神 名叫耶和華  
有權威榮光 有恩典慈愛  
是昔在今在永生的神

有一位神 有權能創造宇宙萬物  
也有溫柔雙手安慰受傷靈魂  
有一位神 高坐在榮耀的寶座  
卻死在十架拯救人墮落

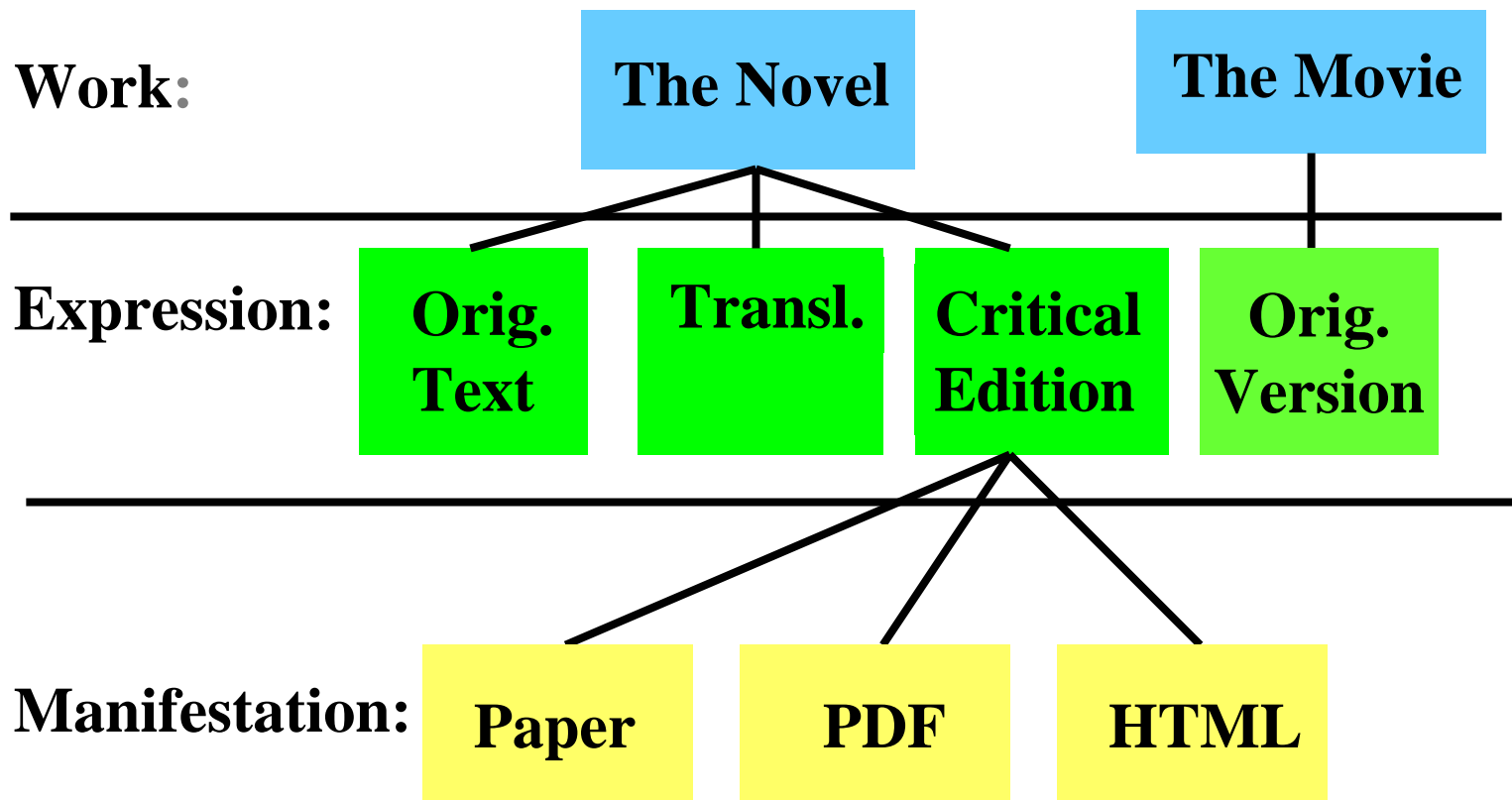
Sheet Music Views:

- » [Brief Display](#)
- ☐ [Page Turner](#)

# FRBR (Functional Requirement for Bibliographic Records)

- A study by IFLA (International Federation of Library Associations) of the full range of functions performed by the bibliographic record
- The report provides a framework for the nature of and uses for bibliographic records
- A conceptual model that can be used as a means to meet user needs and expectations
- <http://www.loc.gov/cds/downloads/FRBR.PDF#search='frbr'>
- <http://www.ifla.org/VII/s13/frbr/frbr.pdf>

# FRBR Entity Levels-Monograph



# FRBRized Public Display

---

- **Author: Aesop**
- **Work: Aesop's fables. Selections**
  - *Form: text - English*
    - Edition: The 1st Walpole ed., from a copy of the latest ed. printed in London.
      - Title: [Fabulae Aesopi selectae: or, Select fables of Aesop ; with an English translation more literal than any yet extant designed for the readier instruction of beginners in the Latin tongue](#)
      - Statement of responsibility: by H. Clarke.
      - Imprint: Printed for Thomas & Thomas by D. Newhall, 1802
      - Physical Description: 155 p. ; 18 cm.
- **Author: Aesop**
- **Work: Aesop's fables. 1673**
  - *Form: text - English*
    - Edition: The third edition.
      - Title: [The fables of Aesop](#)
      - Statement of responsibility: paraphras'd in verse, adorn'd with sculpture, and illustrated with annotations by John Ogilby.
      - Imprint: Printed by the author, 1673
      - Physical Description: 59, [5], 244 p., [83] leaves of plates : ill.
      - Reproduction: Microfilm. Ann Arbor, Mich. : University Microfilms International, 1982. 1 microfilm reel ; 35 mm. (Early English books, 1641-1700 ; 1298:6)
    - Edition:
      - Title: [Aesop's fables](#)
      - Statement of responsibility: art adapted from the works of Gustav Doré and Thomas Bewick.
      - Imprint: Octopus Books, 1979
      - Physical Description: 95 p. : ill. ; 29 cm.
      - ISBN: 0706411161
    - Edition: 1st printing.
      - Title: [The fables of Aesop](#)
      - Statement of responsibility: selected and illustrated by David Levine ; translated by Patrick and Justina Gregory.
      - Imprint: Gambit, 1975

# FRBR Entity Levels-Serials

**Work: JTI**

**Brigham Young Univ. Studies**

**Expression:  
Issues**

**Vol. 35  
No. 1, 1995**

**Vol. 35  
No. 2, 1995**

**Vol. 35  
Special Issue  
Lang. materials -Eng.**

**Manifestation:  
Article record**

**Paper**

**PDF**

**HTML**

**Microfilm**

**Item :  
Holdings**

**GCSU  
Main Lib. 2<sup>nd</sup> fl**

**<http://www.ebsco.com>**

**<http://www.ebsco.com>**

# Journal Indexing Analytics

View Bibliographic Record - Athena 1945

< > 1 / 1

+ Brigham Young University Studies

Full MARC

LDR	00375	as	a2200133	4500
001	vtls0000017384			
003	VRT			
005	20030403161100.0			
008	030403c1968	utu	0	0eng
039	9	1a 200304031611	1b staff	1y 200304031526
130	0	1a Brigham Young University Studies		
650	0	1a LDS Church	1x Periodicals.	
999		1a VIRTUA		
999		1a VTLSSORT0080*0390*1300*6500*9990*9991		

The Work  
record for the  
Journal, *Brigham  
Young University  
Studies*

Edit

Request Bib

Add Item

Delete Item

Refresh

Close



# Journal Indexing Analytics

View Bibliographic Record - Athena 1945

< > 1 / 1

Brigham Young University Studies

+ Language material - English

+ v. 35 no. 1 1995

+ v. 35 no. 2 1995

Full MARC

LDR	00375 as a2200133 4500
001	vtls000017384
003	VRT
005	20030403161100.0
008	030403c1968 utu 0 0eng
039	9 1a 200304031611 1b staff 1y 200304031526 1z staff
130	0 1a Brigham Young University Studies
650	0 1a LDS Church 1x Periodicals.
999	1a VIRTUA
999	1a VTLSSORT0080*0390*1300*6500*9990*9991

Edit

Request Bib

Add Item

Delete Item

Refresh

Close

The expanded tree showing three Expressions: One for the title itself and the other for individual issues



# Journal Indexing Analytics

**View Bibliographic Record - Athena 1945**

< > 1 / 1

- [-] Brigham Young University Studies
  - [-] Language material - English
    - Brigham Young University Studies : - Brigham Young University Press,
      - v. 35 no. 1 1995**
        - Cooperation, conflict, and compromise : - Brigham Young University, 1995.
        - [Review of] The Allegory of the olive tree, the olive, the bible, and Jacob 5 [edited by] Stephen D. Ricks and John V.
        - [Review of] The Ritualization of Mormon history and other essays [by] Davis Bitton / - Brigham Young University, 1
        - [Review of] Kidnapped from that land, the government raids on the Short Creek polygamists [by] Martha Sonntag B
      - + v. 35 no. 2 1995

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The tree expanded to show the Manifestations of the first two Expressions

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[-] Language material - English

Brigham Young University Studies : - Brigham Young University Press,

[-] v. 35 no. 1 1995

Cooperation, conflict, and compromise : - Brigham Young University, 1995.

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[Review of] The Ritualization of Mormon history and other essays [by] Davis Bitton / - Brigham Young University, 1

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100	\a Alexander, Thomas G.
245	\a Cooperation, conflict, and compromise : \b women, men, and the environment in Salt Lake City, 1890-1930.
260	\a Provo, \b Brigham Young University, \c 1995.
300	\a p. 7-39 : \b illus.
520	\a Through efforts that crossed religious, political, and gender lines, Salt Lake City citizens realized some success in clearing their acrid air and promoting a "City Beautiful" and functional.
650	0 \a LDS Church \x History \x Salt Lake City.
999	\a VIRTUAM0

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v. 35 no. 1 1995

Cooperation, conflict, and compromise : - Brigham Young University, 1995.

[Review of] The Allegory of the olive tree, the olive, the bible, and Jacob 5 [edited by] Stephen D. Ricks and John 1

[Review of] The Ritualization of Mormon history and other essays [by] Davis Bitton / - Brigham Young University, 1

[Review of] Kidnapped from that land, the government raids on the Short Creek polygamists [by] Martha Sonntag E

v. 35 no. 2 1995

[Review of] A Storyteller in Zion, essays and speeches by Orson Scott Card / - Brigham Young University, 1995.

Behind the Iron Curtain : - Brigham Young University, 1995.

Four LDS views on Harold Bloom : a roundtable [and a review of] The American Religion, the emergence of the Po

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004	vtls0000017392
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245	1a Four LDS views on Harold Bloom : a roundtable [and a review of] The American Religion, the emergence of the Post-Christian nation [by] Harold Bloom.
260	1a Provo, 1b Brigham Young University, 1c 1995.
300	1a p. 173-205
500	1a Introduction by M. Gerald Bradford and the four views are given by Eugene England, Truman G. Madsen, Charles Randall Paul, and Richard F. Haglund, Jr.
650	0 1a LDS Church.
700	1a Bloom, Harold.
700	1a Bradford, M. Gerald.

Manifestation  
(analytic)  
record  
for the issue  
v.35 no.2 1995

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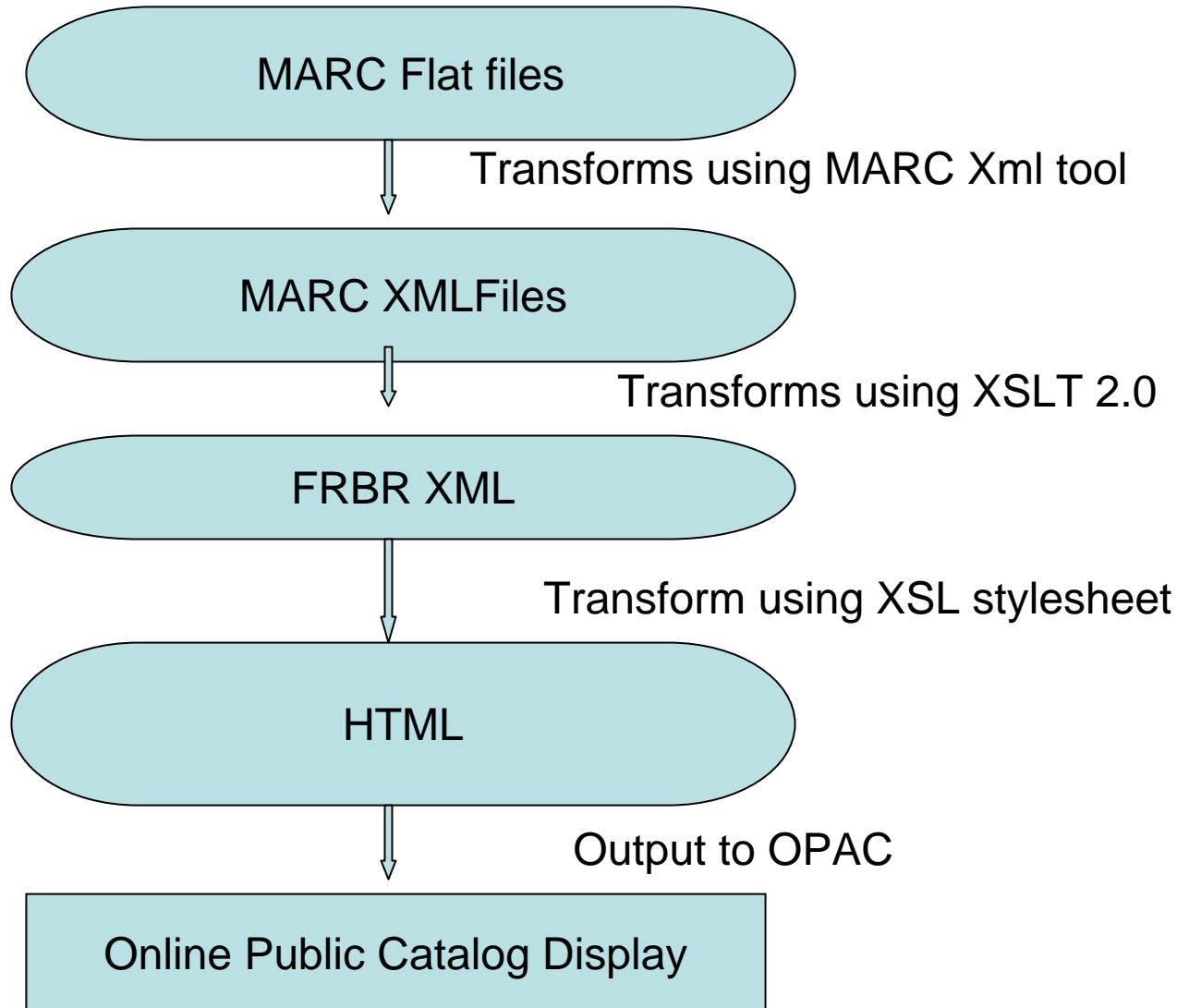
Refresh

Close

# FRBR Projects

- OCLC's Fiction Finder Project
- <http://fictionfinder.oclc.org/>
- RLG's RedLightGreen
- <http://www.redlightgreen.com>
- Examples of faceted browsing:
- Endeca's ProFind
- <http://endeca.com/demos/index.html>
- Elsevier's Scopus
- <http://www.info.scopus.com/demo/>
- North Carolina State University new catalog
- <http://www.lib.ncsu.edu/catalog/>
- Example of serial record "family tree":
- <http://www.secstate.wa.gov/library/docs/>

**FRBR Display Tool Version 2.0**  
**Network Development and MARC Standards Office**  
**Library of Congress**



# Why Authority Control

- Brings consistency to the catalog
- Controls access points
- Ensures access points are unique and consistent
- Provides linkages for variant & related headings
- Virtual international authority file

# Authority Control vs. Access Control

## Authority Control

- Topical
- Geographic
- Form (genre)
- Chronological
- Name

## Access Control

- Main & Added author entries (corp. meeting)
- Series
- Subject Headings
- Titles
- Uniform titles
- Variant titles
- Numeric fields (ISBN, ISSN, DOI)

# **FAST** (Faceted Application of Subject Terminology)- **Eight Facets**

- **Topical**
- **Geographical (Place)**
- **Personal Name**
- **Corporate Name**
- **Form (Type, Genre)**
- **Chronological (Time, Period)**
- **Title**
- **Meeting Name**



# Faceting of LCSH

LCSH:

1. Gold mines and mining \$z California
2. Silver mines and mining \$z Colorado

FAST:

1. Gold mines and mining
2. Silver mines and mining
3. California
4. Colorado

# Faceting of LCSH

## LCSH

650 America loyalists  
\$z England.

651 United States \$x  
History \$y  
Revolution, 1775-  
1783 \$v Biography.

650 Secret service \$z  
Great Britain.

650 Painters \$z United  
States.

## FAST

648 1775 – 1783

650 American  
loyalists

650 Secret service

650 Painters

651 England

651 United States

651 Great Britain

655 Biography

655 History

# Obsolete heading example

- Old LC subject heading  
**Trade-unions**

Leader/05 'o'

150Trade-unions

750 0 Labor unions  
\$0(DLC)sh 85136516

750 7 Labor unions \$7  
(fast)[OCLC assigned  
number] \$w

- New FAST Authority  
Record for **Labor  
unions**

Leader/05 'n'

150 Labor unions

450 Trade-unions

750 0 Labor unions \$0(DLC)  
sh 8516516

# Old Wine in New Bottles

- The opportunity is here.
- We can give it a try without fear.

危机? Or 转机?

# Questions & Answers

Sandy Chen  
schen@ncf.edu